



U.S. Department of Energy  
Energy Efficiency  
and Renewable Energy



# **Welcome to the HEV Web Cast**

**Marcy Rood  
HEV Web Cast  
January 26, 2005**



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# **Agenda for HEV Webcast**

## **January 26, 2005**

### **11 a.m.-12:30 p.m. (Eastern Time)**

<b>Marcy Rood, DOE Clean Cities</b> Welcome, introductions, and general overview	11:00 a.m.-11:15 a.m.
<b>Debbie Brodt-Giles, NREL Clean Cities</b> Overview of new HEV Web site	11:15 a.m.-11:25 a.m.
<b>Walter McManus, McManus Analytics, LLC</b> Prospects for Hybrids in the U.S. Market	11:25 a.m.-11:45 a.m.
<b>Bill Van Amburg, Calstart/Weststart</b> Hybrid Truck Users Forum (HTUF)	11:45 a.m. – 12:05 p.m.
<b>Naomi Friedman, Center for a New American Dream</b> Harnessing the Power of Hybrid Electric Fleet Vehicles	12:05 p.m. – 12:25 p.m.



# Clean Cities HEV Strategy

- Educate consumers about the benefits of hybrid technologies.
- Track product availability, growth potential, and fleet marketing plans.
- Determine where and how Clean Cities can have the greatest hybrid market impact.
- Develop documents detailing hybrid life cycle costs and benefits, funding sources, federal and state incentives, and case studies.
- Encourage coalitions to develop state and local outreach materials on hybrids.



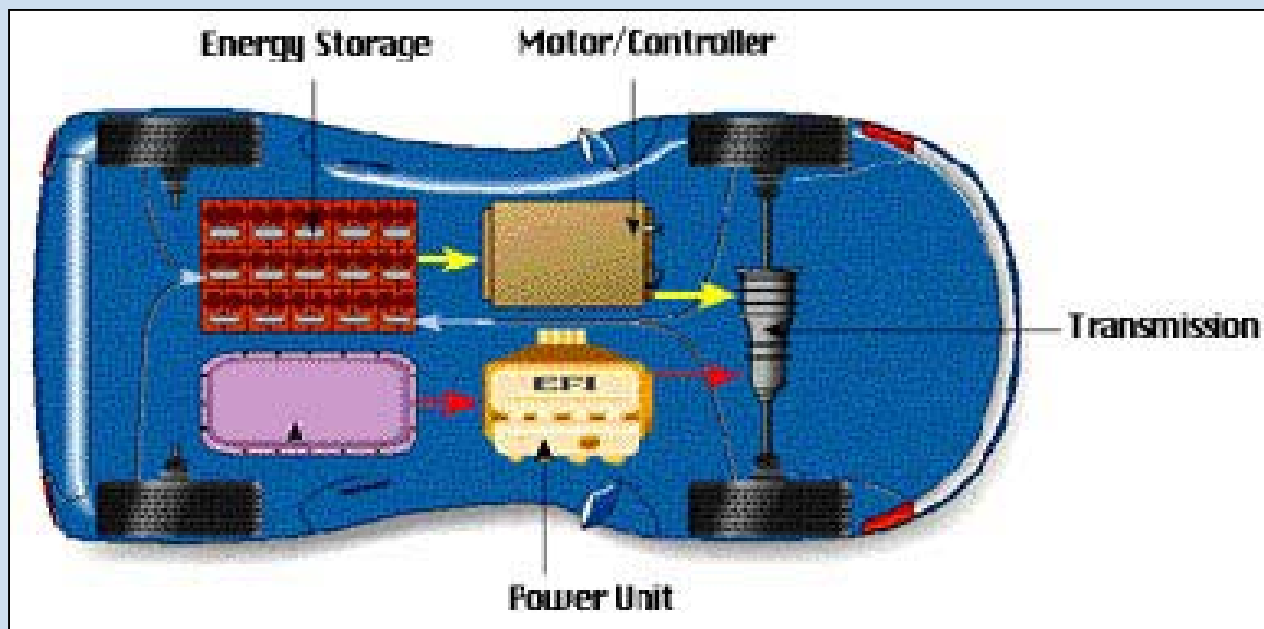
# HEV Description

- HEVs are powered by two energy sources—an energy conversion unit and an energy storage device. HEVs can use gasoline, methanol, compressed natural gas, hydrogen, or other alternative fuels. Hybrid electric vehicles have the potential to be two to three times more fuel-efficient than conventional vehicles.



# Parallel Hybrid Design

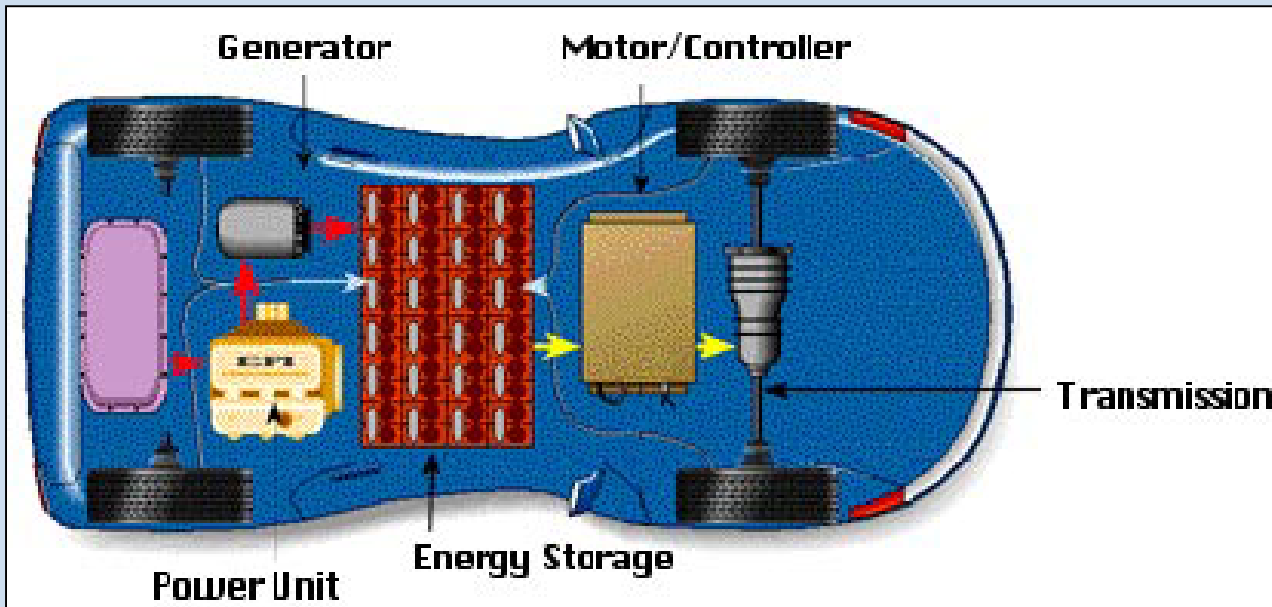
A HEV with a parallel configuration has a direct mechanical connection between the hybrid power unit and the wheels, as in a conventional vehicle, but also has an electric motor that drives the wheels.





# Series Hybrid Design

A HEV with a series configuration uses the heat engine or fuel cell with a generator to produce electricity for the battery pack and electric motor.







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# Available Light-Duty Hybrid Vehicles



Ford Hybrid Escape



Honda Accord Hybrid



Toyota Highlander HEV



Toyota Prius



GMC Sierra Hybrid



Honda Civic Hybrid



Honda Insight



Chevrolet Silverado HEV



Lexus RX 400h Hybrid